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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/000,309	12/04/2001	Shinsuke Ito	111055	8902

25944 7590 07/14/2003

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EXAMINER
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CRUZ, MAGDA

ART UNIT	PAPER NUMBER
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2851

DATE MAILED: 07/14/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/000,309	ITO ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Magda Cruz	2851	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 04 December 2001.
- 2a) ☐ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All   b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- |   |  |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                       | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____   |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                              | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)  |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>12/04/01</u> | 6) <input checked="" type="checkbox"/> Other: <u>IDS filed on 02/08/2002</u> |

## **DETAILED ACTION**

### ***Priority***

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### ***Specification***

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Hara et al.

Hara et al. (US Patent Number 6,398,366 B1) discloses a projector (1), comprising a light source device (6), luminous flux (L1) emitted from the light source device (6) being magnified and projected so as to form a projected image after being modulated (column 15, lines 31-35); an outer case (41) that accommodates the light source device (6), a cooling passage (47, 48, 49) that cools the outer case and the light

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source device (6) formed in a vicinity of the light source device in the outer case (41), the cooling passage (47, 48, 49) being formed by cooling air being blown out of a cooling duct arranged inside the outer case (column 12, lines 5-11), a cooling air inlet hole (47) of the cooling duct being capable of taking cooling air from the exterior (column 9, lines 45-50) of the outer case (41), and a discharge hole of the cooling duct having an opening formed to directly blow the cooling air on an internal side face of the outer case (column 9, lines 50-57); a restrictor (55) formed in an upstream side of the opening of the cooling duct (47). The cooling air inlet hole of the cooling duct (48) is divided into two directions by a first passage (i.e. air flow inside the light source; Figure 6) and a second passage (i.e. outside the outer case that includes the light source; Figure 6), the first passage cooling an inside of a light source lamp of the light source device (column 12, lines 12-17), while the second passage being capable of cooling an outer peripheral portion of the light source lamp and the internal side face of the outer case (column 12, lines 17-22), including a centrifugal fan (32) which is connected to the cooling duct in the side of the cooling air inlet hole (column 8, lines 4-11). The centrifugal fan (32) is a sirocco fan disposed on an internal side face of the outer case (column 7, lines 20-23), and further including an exhaust fan (25) arranged on a side face perpendicular to the internal side face of the outer case that exhausts cooling air that has been received from the sirocco fan and the cooling duct and that has cooled the outer case (column 7, lines 17-20).

### ***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Fuse et al. (US Patent Number 6,280,038 B1) discloses a cooling system comprising a ventilation device, such as a centrifugal fan, for drawing in air through an air intake opening in the case of the equipment.

Konuma et al. (US Patent Number 6,290,360 B1) teaches a projection lens unit, an optical unit and cooling system.

Shiraishi et al. (US Patent Number 6,334,686 B1) shows a cooling device comprising a plurality of wind supply openings.

Shiraishi et al. (US Patent Number 6,231,191 B1) discloses an image display mechanism and an image display device comprising a duct provided between cooling means.

Shiraishi et al. (US Patent Number 6,582,083 B2) teaches a display device comprising a cooling system.

Takizawa et al. (US Patent Number 6,540,364 B2) shows a projector comprising a sirocco fan with an air inlet opposing a projection lens.


Ito et al. (US Patent Number 6,558,004 B2) discloses a projector comprising a cooling system.

Ito et al. (US Patent Number 6,561,650 B2) teaches a projector comprising a duct disposed between the sirocco fan and the cooling air-flow-inlet side opening.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Magda Cruz whose telephone number is (703)308-6367. The examiner can normally be reached on Monday through Thursday 8:00-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russ Adams can be reached on (703)308-2847. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9318 for regular communications and (703)872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-1782.

  
MAGDA CRUZ  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2850

Magda Cruz  
Patent Examiner  
July 8, 2003